

Connecting via Winsock to Dialog

Logging in to Dialog

Trying 31060000009998...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

ENTER PASSWORD:

Welcome to DIALOG

Dialog level 05.04.04D

Last logoff: 11:04:13

Logon file001 12:15:15

*** ANNOUNCEMENT ***

--Important Notice to Freelance Authors--

See HELP FREELANCE for more information

NEW FILES RELEASED

***FDAnews (File 182)

***German Patents Fulltext (File 324)

***Beilstein Abstracts (File 393)

***Beilstein Facts (File 390)

***Beilstein Reactions (File 391)

RELOADED

***Medline (Files 154 & 155)

***ToxFile (File 156)

RESUMED UPDATING

***Canadian Business and Current Affairs (262)

***CorpTech (559)

REMOVED

***Health News Daily (43)

***FDC Reports Gold Sheet/Silver Sheet (184)

***FDC Reports (186/187)

***NDA Pipeline: New Drugs (189)

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<

>>> of new databases, price changes, etc. <<<

HILIGHT set on as 'AS' ''''

DOCS is set ON as an alias for /CT,AB/.

KDAOCS is set ON as an alias for /CT,AB,K/.

FTEXT1 is set ON as an alias for 15,16,148,160,268,275,621,625,626.

FTEXT2 is set ON as an alias for 9,20,267,476,608,610,613,624,634,636,810,813.

BIB1 is set ON as an alias for 35,583,65,2,144,474,475,99.

SUB35BIB is set ON as an alias for 139.

SUB35 is set ON as an alias for 625,268,626,267,608.

* * *

File 1:ERIC 1966-2004/Jul 21
(c) format only 2004 The Dialog Corporation
*File 1: Updates suspended by ERIC until
Q2, 2005

Set	Items	Description

Cost is in DialUnits		
? b 410		
	12:15:15	User233765 Session D116.1
\$0.40	0.114	DialUnits File1
\$0.40		Estimated cost File1
\$0.40		Estimated cost this search
\$0.40		Estimated total session cost 0.114 DialUnits

File 410:Chronolog(R) 1981-2005/Mar
(c) The Dialog Corporation

Set	Items	Description

? set hi ;set hi		
HIGHLIGHT set on as ''		
HIGHLIGHT set on as ''		
? b ftext1		
>>> 626 is unauthorized		
>>>1 of the specified files is not available		
	12:15:22	User233765 Session D116.2
\$0.00	0.100	DialUnits File410
\$0.00		Estimated cost File410
\$0.02		TELNET
\$0.02		Estimated cost this search
\$0.42		Estimated total session cost 0.214 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 15:ABI/Inform(R) 1971-2005/May 12
(c) 2005 ProQuest Info&Learning

*File 15: Alert feature enhanced for multiple files, duplicate removal, customized scheduling. See HELP ALERT.

File 16:Gale Group PROMT(R) 1990-2005/May 11
(c) 2005 The Gale Group

*File 16: Alert feature enhanced for multiple files, duplicate removal, customized scheduling. See HELP ALERT.

File 148:Gale Group Trade & Industry DB 1976-2005/May 11
(c) 2005 The Gale Group

*File 148: Alert feature enhanced for multiple files, duplicate removal, customized scheduling. See HELP ALERT.

File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group

File 268:Banking Info Source 1981-2005/May 11
(c) 2005 ProQuest Info&Learning

*File 268: SELECT IMAGE AVAILABILITY FOR PROQUEST FILES
ENTER 'HELP PROQUEST' FOR MORE

File 275:Gale Group Computer DB(TM) 1983-2005/May 11
(c) 2005 The Gale Group

File 621:Gale Group New Prod.Annou. (R) 1985-2005/May 11
(c) 2005 The Gale Group

File 625:American Banker Publications 1981-2005/May 11
(c) 2005 American Banker

Set	Items	Description
?	s trad?	bid? offer?
S1	0	TRAD? BID? OFFER?
?	s trad?	or bid? or offer?
Processing		
Processing		
	6604116	TRAD?
	915482	BID?
	8011160	OFFER?
S212335551		TRAD? OR BID? OR OFFER?
?	interconnection (w)	fabric
>>>Unrecognizable Command		
?	s interconnection (w)	fabric
	87514	INTERCONNECTION
	174319	FABRIC
S3	57	INTERCONNECTION (W) FABRIC
?	s s3 (s) s2	
	57	S3
	12335551	S2
S4	4	S3 (S) S2
?	t4/3/all	

4/3/1 (Item 1 from file: 16)
 DIALOG(R)File 16:Gale Group PROMT(R)
 (c) The Gale Group. All rts. reserv.

11461827 Supplier Number: 121937983 (USE FORMAT 7 FOR FULLTEXT)
 Leading Telecom Companies to Exchange Traffic at First Metro Exchange in
 New York City's Top Carrier Hotel.
 Business Wire, pNA
 Sept 14, 2004
 Language: English Record Type: Fulltext
 Document Type: Newswire; Trade
 Word Count: 1082

4/3/2 (Item 2 from file: 16)
 DIALOG(R)File 16:Gale Group PROMT(R)
 (c) The Gale Group. All rts. reserv.

02984723 Supplier Number: 44046924 (USE FORMAT 7 FOR FULLTEXT)
 NEW BREED OF IBM MAINFRAME APPS
 CommunicationsWeek, p12
 August 23, 1993
 Language: English Record Type: Fulltext
 Document Type: Newsletter; Trade
 Word Count: 317

4/3/3 (Item 1 from file: 148)
 DIALOG(R)File 148:Gale Group Trade & Industry DB
 (c) The Gale Group. All rts. reserv.

0017392488 SUPPLIER NUMBER: 121937983 (USE FORMAT 7 OR 9 FOR FULL
 TEXT)
 Leading Telecom Companies to Exchange Traffic at First Metro Exchange in
 New York City's Top Carrier Hotel.

Business Wire, NA
Sept 14, 2004
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 1082 LINE COUNT: 00096

4/3/4 (Item 1 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2003 The Gale Group. All rts. reserv.

03794799 Supplier Number: 121937983 (USE FORMAT 7 FOR FULLTEXT)
Leading Telecom Companies to Exchange Traffic at First Metro Exchange in
New York City's Top Carrier Hotel.

Business Wire, pNA
Sept 14, 2004
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1082
? rd

>>>Duplicate detection is not supported for File 625.

>>>Records from unsupported files will be retained in the RD set.
...completed examining records
S5 2 RD (unique items)
? t5/kwic/all

5/KWIC/1 (Item 1 from file: 16)
DIALOG(R)File 16:(c) 2003 The Gale Group. All rts. reserv.

... customers. Leveraging the network-neutral approach of both Equinix
and NYC Connect, the new service **offers** an **interconnection**
fabric between NYC Connect, which operates the only neutral "Meet Me
Room" at 111 Eighth Avenue...

5/KWIC/2 (Item 2 from file: 16)
DIALOG(R)File 16:(c) 2003 The Gale Group. All rts. reserv.

... contribute to rapid customer acceptance of this new technology,
according to Reedy. Applications running on ***traditional*** S/390
mainframes will run unchanged on the parallel systems. The new computer
will yoke together scores of low-cost microprocessors, which will be linked
by a high-speed ***interconnection*** ***fabric***. Also, the parallel
S/390 will be able to share data with existing mainframes. Pricing...

?
PLEASE ENTER A COMMAND OR BE LOGGED OFF IN 5 MINUTES
? ds

Set	Items	Description
S1	0	TRAD? BID? OFFER?
S2	12335551	TRAD? OR BID? OR OFFER?
S3	57	INTERCONNECTION (W) FABRIC
S4	4	S3 (S) S2
S5	2	RD (unique items)
? s business		
	S625906009	BUSINESS
? s s6 and s3		
	25906009	S6
	57	S3

S7 47 S6 AND S3

? rd

>>>Duplicate detection is not supported for File 625.

>>>Records from unsupported files will be retained in the RD set.
...completed examining records

S8 27 RD (unique items)

? t8/3/all

8/3/1 (Item 1 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2005 ProQuest Info&Learning. All rts. reserv.

00373916 87-32750

Factors Driving the Fast Packet Switching Market
Bender, Warren G.

Business Communications Review v17n5 PP: 10-12 Sep/Oct 1987

ISSN: 0162-3885 JRNL CODE: BCR

8/3/2 (Item 1 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

11461827 Supplier Number: 121937983 (USE FORMAT 7 FOR FULLTEXT)
Leading Telecom Companies to Exchange Traffic at First Metro Exchange in
New York City's Top Carrier Hotel.

Business Wire, pNA

Sept 14, 2004

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1082

8/3/3 (Item 2 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

11390412 Supplier Number: 120471440 (USE FORMAT 7 FOR FULLTEXT)
Compunetix Powers Conferencing Service Providers with CONTEX Summit (R)
Platform Provides Collaboration Market Growth Opportunities.

PR Newswire, pNA

August 11, 2004

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 493

8/3/4 (Item 3 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

10453333 Supplier Number: 101172043 (USE FORMAT 7 FOR FULLTEXT)
Compute fabric reconfigures to meet DSP system needs: a
software-configurable compute fabric aims to replace ASICs and FPGAs for
basestation signal processing and other applications. (Tech View:
Components & Test).

Bursky, Dave

Electronic Design, v51, n9, p32(1)

April 28, 2003
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 744

8/3/5 (Item 4 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

09106107 Supplier Number: 79354617 (USE FORMAT 7 FOR FULLTEXT)
InfiniBand Switch Node Delivers Eight 4X Ports.
Weiss, Ray
Electronic Design, v49, n21, p60
Oct 15, 2001
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 2135

8/3/6 (Item 5 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

08940192 Supplier Number: 77607726 (USE FORMAT 7 FOR FULLTEXT)
Sigma Deploys Cisco's Optical Equipment.
Fiber Optics News, v21, n33, pNA
August 27, 2001
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 177

8/3/7 (Item 6 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

08914960 Supplier Number: 77309915 (USE FORMAT 7 FOR FULLTEXT)
Sigma Networks Deploys Cisco's Leading Optical Networking Equipment to
Expand Services in the Metro.
Business Wire, p0152
August 20, 2001
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 889

8/3/8 (Item 7 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

08544993 Supplier Number: 73578589
Fall River-based Paricon Technologies.
Mass High Tech, p46(1)
April 9, 2001
Language: English Record Type: Abstract
Document Type: Magazine/Journal; Trade

8/3/9 (Item 8 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

07861598 Supplier Number: 65637535 (USE FORMAT 7 FOR FULLTEXT)
New I/O paths break bottlenecks. (Technology Information)
Hosking, Rodger H.
Electronic Engineering Times, p118
Oct 2, 2000
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1898

8/3/10 (Item 9 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

07009152 Supplier Number: 59274283 (USE FORMAT 7 FOR FULLTEXT)
Researchers At Lucent's Bell Labs Develop Next-Generation Engines for
Communications Networks.
Business Wire, p1386
Feb 9, 2000
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 647

8/3/11 (Item 10 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

06418361 Supplier Number: 54913384 (USE FORMAT 7 FOR FULLTEXT)
Network Storage '99, Sponsored by Peripheral Concepts, to be Held in
Monterey, June 28-30.
Business Wire, p0111
June 17, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 463

8/3/12 (Item 11 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

06367360 Supplier Number: 54726753 (USE FORMAT 7 FOR FULLTEXT)
Peripheral Concepts-Sponsored Network Storage '99 to be Held in Monterey,
June 28-30.
Business Wire, p0133
May 26, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 463

8/3/13 (Item 12 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

06059246 Supplier Number: 55349539 (USE FORMAT 7 FOR FULLTEXT)
In Search of Integrated Management.(Unicenter TNG, from Computer Associates
leads in enterprise management solution race)(Product Information)
Steinke, Steve
Network, pNA
Dec 1, 1998
Language: English Record Type: Fulltext Abstract
Document Type: Magazine/Journal; Trade
Word Count: 3355

8/3/14 (Item 13 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

05913523 Supplier Number: 53139148 (USE FORMAT 7 FOR FULLTEXT)
UK and US start-ups in joint interface venture.
Electronics Times, p6(1)
Oct 26, 1998
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 279

8/3/15 (Item 14 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

05724502 Supplier Number: 50200281 (USE FORMAT 7 FOR FULLTEXT)
Mercury Computer Systems to Ship RACE(TM) Systems Based on Low-Power
Motorola PowerPC(TM) 750 Microprocessor.
Business Wire, p07271304
July 27, 1998
Language: English Record Type: Fulltext
Article Type: Article
Document Type: Newswire; Trade
Word Count: 670

8/3/16 (Item 15 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

05618632 Supplier Number: 50038496 (USE FORMAT 7 FOR FULLTEXT)
Users' Choices for RACEway Expanded With Technology Partnership.
Business Wire, p05281355
May 28, 1998
Language: English Record Type: Fulltext
Article Type: Article
Document Type: Newswire; Trade
Word Count: 620

8/3/17 (Item 16 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

05561290 Supplier Number: 48424728 (USE FORMAT 7 FOR FULLTEXT)

SGI TO CUT STAFF, MOVE TO INTEL IN ORDER TO SURVIVE
Computergram International, pN/A
April 15, 1998
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1329

8/3/18 (Item 17 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

05256018 Supplier Number: 48010312 (USE FORMAT 7 FOR FULLTEXT)
Meeting the Internet Challenge: Erik Grimmelman, VP of Network and Access,
AT&T WorldNet
InternetWeek, p41
Sept 29, 1997
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 798

8/3/19 (Item 18 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

03551192 Supplier Number: 44986556 (USE FORMAT 7 FOR FULLTEXT)
Fiber Channel has roots in mainframes
Electronic Engineering Times, p48
Sept 12, 1994
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 506

8/3/20 (Item 19 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

02984723 Supplier Number: 44046924 (USE FORMAT 7 FOR FULLTEXT)
NEW BREED OF IBM MAINFRAME APPS
CommunicationsWeek, p12
August 23, 1993
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 317

8/3/21 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

0017534201 SUPPLIER NUMBER: 113562753 (USE FORMAT 7 OR 9 FOR FULL
TEXT)
Speedy simplicity: the era of stardom for the cumbersome and slow
parallel-storage interface is drawing to a close as nimbler, younger
serial contenders take the stage.(tech trends)
Dipert, Brian
EDN, 49, 2, 33(6)

Jan 22, 2004

ISSN: 0012-7515

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 3918

LINE COUNT: 00335

8/3/22 (Item 2 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2005 The Gale Group. All rts. reserv.

16290563 SUPPLIER NUMBER: 108276808 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Platform-based design: blocks and buses lead the way: the design method is becoming popular, despite a lack of a clear definition of what constitutes a platform. (design feature)

Moretti, Gabe

EDN, 48, 18, 55(6)

August 21, 2003

ISSN: 0012-7515

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 4433

LINE COUNT: 00379

8/3/23 (Item 3 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2005 The Gale Group. All rts. reserv.

14548773 SUPPLIER NUMBER: 85481651 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Designing dependable devices: as consumers begin to trust electronics to gather critical information and conduct real-time transactions, the demand for ultradependable system is spreading from the enterprise level throughout the embedded world. (design feature).

Webb, Warren

EDN, 47, 9, 47(5)

April 18, 2002

ISSN: 0012-7515

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 2894

LINE COUNT: 00252

8/3/24 (Item 4 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2005 The Gale Group. All rts. reserv.

09795070 SUPPLIER NUMBER: 19821577 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Meeting the Internet challenge. (AT&T WorldNet VP of Network and Access

Erik Grimmelman) (Company **Business** and Marketing) (Interview)

Rendleman, John

InternetWeek, n683, p41(2)

Sep 29, 1997

DOCUMENT TYPE: Interview

LANGUAGE: English

RECORD TYPE: Fulltext;

Abstract

WORD COUNT: 844

LINE COUNT: 00069

8/3/25 (Item 5 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2005 The Gale Group. All rts. reserv.

08632317 SUPPLIER NUMBER: 18146268 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Can NT scale? (the scalability of Windows NT applications to enterprise level) (includes related articles on clustering NT, and interviewing

Intel Enterprise Server Group Sr VP David House on the company's scalability strategy) (Microsoft & the Enterprise: Servers) (Product Information) (Cover Story)

Simpson, David

Datamation, v42, n6, p78(4)

March 15, 1996

DOCUMENT TYPE: Cover Story ISSN: 1062-8363 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2464 LINE COUNT: 00197

8/3/26 (Item 6 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2005 The Gale Group. All rts. reserv.

07866647 SUPPLIER NUMBER: 16882175 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Cypress and Mercury to develop RACEway Interlink products; Will move

RACEway technology beyond VMEbus.

Business Wire, p5221030

May 22, 1995

LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 619 LINE COUNT: 00065

8/3/27 (Item 1 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

(c) 2005 The Gale Group. All rts. reserv.

01260093 Supplier Number: 44748842 (USE FORMAT 7 FOR FULLTEXT)

IBM UNVEILS SYSTEM SOFTWARE ENHANCEMENTS FOR NEW POWERPARALLEL SYSTEMS

News Release, pN/A

June 10, 1994

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1275

? ds

Set	Items	Description
S1	0	TRAD? BID? OFFER?
S2	12335551	TRAD? OR BID? OR OFFER?
S3	57	INTERCONNECTION (W) FABRIC
S4	4	S3 (S) S2
S5	2	RD (unique items)
S6	25906009	BUSINESS
S7	47	S6 AND S3
S8	27	RD (unique items)

? s s8 and py<=2001

Processing

27 S8

26752671 PY<=2001

S9 21 S8 AND PY<=2001

? t9/3/1-10

9/3/1 (Item 1 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2005 ProQuest Info&Learning. All rts. reserv.

00373916 87-32750

Factors Driving the Fast Packet Switching Market

Bender, Warren G.

Business Communications Review v17n5 PP: 10-12 Sep/Oct 1987

ISSN: 0162-3885 JRNL CODE: BCR

9/3/2 (Item 1 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

09106107 Supplier Number: 79354617 (USE FORMAT 7 FOR FULLTEXT)

InfiniBand Switch Node Delivers Eight 4X Ports.

Weiss, Ray

Electronic Design, v49, n21, p60

Oct 15, 2001

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 2135

9/3/3 (Item 2 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

08940192 Supplier Number: 77607726 (USE FORMAT 7 FOR FULLTEXT)

Sigma Deploys Cisco's Optical Equipment.

Fiber Optics News, v21, n33, pNA

August 27, 2001

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 177

9/3/4 (Item 3 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

08914960 Supplier Number: 77309915 (USE FORMAT 7 FOR FULLTEXT)

Sigma Networks Deploys Cisco's Leading Optical Networking Equipment to

Expand Services in the Metro.

Business Wire, p0152

August 20, 2001

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 889

9/3/5 (Item 4 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

08544993 Supplier Number: 73578589

Fall River-based Paricon Technologies.

Mass High Tech, p46(1)

April 9, 2001

Language: English Record Type: Abstract

Document Type: Magazine/Journal; Trade

9/3/6 (Item 5 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

07861598 Supplier Number: 65637535 (USE FORMAT 7 FOR FULLTEXT)
New I/O paths break bottlenecks.(Technology Information)
Hosking, Rodger H.
Electronic Engineering Times, p118
Oct 2, 2000
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1898

9/3/7 (Item 6 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

07009152 Supplier Number: 59274283 (USE FORMAT 7 FOR FULLTEXT)
Researchers At Lucent's Bell Labs Develop Next-Generation Engines for
Communications Networks.
Business Wire, p1386
Feb 9, 2000
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 647

9/3/8 (Item 7 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

06418361 Supplier Number: 54913384 (USE FORMAT 7 FOR FULLTEXT)
Network Storage '99, Sponsored by Peripheral Concepts, to be Held in
Monterey, June 28-30.
Business Wire, p0111
June 17, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 463

9/3/9 (Item 8 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

06367360 Supplier Number: 54726753 (USE FORMAT 7 FOR FULLTEXT)
Peripheral Concepts-Sponsored Network Storage '99 to be Held in Monterey,
June 28-30.
Business Wire, p0133
May 26, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 463

9/3/10 (Item 9 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

06059246 Supplier Number: 55349539 (USE FORMAT 7 FOR FULLTEXT)
In Search of Integrated Management. (Unicenter TNG, from Computer Associates
leads in enterprise management solution race) (Product Information)
Steinke, Steve
Network, pNA
Dec 1, 1998
Language: English Record Type: Fulltext Abstract
Document Type: Magazine/Journal; Trade
Word Count: 3355
? t9/3/11-20

9/3/11 (Item 10 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

05913523 Supplier Number: 53139148 (USE FORMAT 7 FOR FULLTEXT)
UK and US start-ups in joint interface venture.
Electronics Times, p6(1)
Oct 26, 1998
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 279

9/3/12 (Item 11 from file: 16)
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Mercury Computer Systems to Ship RACE(TM) Systems Based on Low-Power
Motorola PowerPC(TM) 750 Microprocessor.
Business Wire, p07271304
July 27, 1998
Language: English Record Type: Fulltext
Article Type: Article
Document Type: Newswire; Trade
Word Count: 670

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Users' Choices for RACEway Expanded With Technology Partnership.
Business Wire, p05281355
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Language: English Record Type: Fulltext
Article Type: Article
Document Type: Newswire; Trade
Word Count: 620

9/3/14 (Item 13 from file: 16)
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Computergram International, pN/A
April 15, 1998
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1329

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05256018 Supplier Number: 48010312 (USE FORMAT 7 FOR FULLTEXT)
Meeting the Internet Challenge: Erik Grimmelman, VP of Network and Access,
AT&T WorldNet
InternetWeek, p41
Sept 29, 1997
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
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9/3/16 (Item 15 from file: 16)
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03551192 Supplier Number: 44986556 (USE FORMAT 7 FOR FULLTEXT)
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Language: English Record Type: Fulltext
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August 23, 1993
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 317

9/3/18 (Item 1 from file: 148)
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09795070 SUPPLIER NUMBER: 19821577 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Meeting the Internet challenge. (AT&T WorldNet VP of Network and Access
Erik Grimmelman) (Company **Business** and Marketing) (Interview)
Rendleman, John
InternetWeek, n683, p41(2)
Sep 29, 1997
DOCUMENT TYPE: Interview LANGUAGE: English RECORD TYPE: Fulltext;
Abstract

WORD COUNT: 844 LINE COUNT: 00069

9/3/19 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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08632317 SUPPLIER NUMBER: 18146268 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Can NT scale? (the scalability of Windows NT applications to enterprise level) (includes related articles on clustering NT, and interviewing Intel Enterprise Server Group Sr VP David House on the company's scalability strategy) (Microsoft & the Enterprise: Servers) (Product Information) (Cover Story)
Simpson, David
Datamation, v42, n6, p78(4)
March 15, 1996
DOCUMENT TYPE: Cover Story ISSN: 1062-8363 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 2464 LINE COUNT: 00197

9/3/20 (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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07866647 SUPPLIER NUMBER: 16882175 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Cypress and Mercury to develop RACEway Interlink products; Will move RACEway technology beyond VMEbus.
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May 22, 1995
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 619 LINE COUNT: 00065
? t9/3/21-27

9/3/21 (Item 1 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
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01260093 Supplier Number: 44748842 (USE FORMAT 7 FOR FULLTEXT)
IBM UNVEILS SYSTEM SOFTWARE ENHANCEMENTS FOR NEW POWERPARALLEL SYSTEMS
News Release, pN/A
June 10, 1994
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1275
? t9/3,ab/5,10,15,217
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9/3,AB/5 (Item 4 from file: 16)
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08544993 Supplier Number: 73578589
Fall River-based Paricon Technologies.
Mass High Tech, p46(1)
April 9, 2001
Language: English Record Type: Abstract
Document Type: Magazine/Journal; Trade

ABSTRACT:

Paricon Technologies Corp, a privately held manufacturer of a unique, ultra-low profile, advanced **interconnection fabric** technology, has signed a cooperative research and development agreement with the Naval Undersea Warfare Center in Newport, RI. Paricon and the Center have entered into this research and development agreement to develop products of mutual interest.

9/3,AB/10 (Item 9 from file: 16)
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06059246 Supplier Number: 55349539
In Search of Integrated Management.(Unicenter TNG, from Computer Associates leads in enterprise management solution race)(Product Information)
Steinke, Steve
Network, pNA
Dec 1, 1998
Language: English Record Type: Fulltext Abstract
Document Type: Magazine/Journal; Trade
Word Count: 3355

ABSTRACT:

A 1997 Gartner Group study demonstrates that only 25% of companies purchasing enterprise management solutions had successfully installed them 18 months later. The figures indicate that putting ***business*** -process-oriented, end-to-end management in place is an expensive and challenging operation. Large enterprises will often spend millions of dollars for a comprehensive, platform-based solution, then invest further millions in systems support, evaluation, and debugging. Unicenter TNG, from Computer Associates (CA), is arguably the leading vendor of integrated systems and network management products. Not unlike Microsoft in the operating system arena, CA markets Unicenter TNG aggressively and works hard to convince third-party developers that Unicenter should be their first target platform.

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Meeting the Internet Challenge: Erik Grimmelman, VP of Network and Access, AT&T WorldNet
InternetWeek, p41
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IBM UNVEILS SYSTEM SOFTWARE ENHANCEMENTS FOR NEW POWERPARALLEL SYSTEMS

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Fall River-based Paricon Technologies.

Mass High Tech, p46(1)

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Language: English Record Type: Abstract

Document Type: Magazine/Journal; Trade

ABSTRACT:

Paricon Technologies Corp, a privately held manufacturer of a unique, ultra-low profile, advanced **interconnection fabric** technology, has signed a cooperative research and development agreement with the Naval Undersea Warfare Center in Newport, RI. Paricon and the Center have entered into this reseach and development agreement to develop products of mutual interest.

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In Search of Integrated Management. (Unicenter TNG, from Computer Associates leads in enterprise management solution race) (Product Information)

Steinke, Steve

Network, pNA

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Word Count: 3355

ABSTRACT:

A 1997 Gartner Group study demonstrates that only 25% of companies purchasing enterprise management solutions had successfully installed them 18 months later. The figures indicate that putting *****business***** -process-oriented, end-to-end management in place is an expensive and challenging operation. Large enterprises will often spend millions of dollars for a comprehensive, platform-based solution, then invest further millions in systems support, evaluation, and debugging. Unicenter TNG, from Computer Associates (CA), is arguably the leading vendor of integrated systems and

network management products. Not unlike Microsoft in the operating system arena, CA markets Unicenter TNG aggressively and works hard to convince third-party developers that Unicenter should be their first target platform.

TEXT:

Systems management and network management have long existed as separate continents, with different tools, different staffs, and different industry standards. One of the biggest challenges facing distributed computing—that is to say, every enterprise—is achieving meaningful integration of these environments.

Think of systems management as the practice of managing the endpoints of distributed computing: servers, clients, browsers, databases, minicomputers, and mainframes. Some people put application management in its own category, but generally, the tasks of configuring applications, eliminating faults, tuning performance, and ensuring security are considered systems management.

Network management, on the other hand, is concerned with the **interconnection fabric**—the parts of the distributed system that allow the endpoints and applications to communicate with one another. At first glance, network components appear to be the hardware infrastructure of the network (that is, cabling, hubs, routers, and switches). But a deeper look reveals numerous software components, including drivers for various operating systems, protocol stacks for hosts and internetworking devices, and special-purpose software such as firewalls, load balancers, bandwidth managers, and VPN terminators.

Both systems and network management have three components: instrumentation, transport, and management (where a management application or console manipulates and presents management information). Instrumentation usually takes the form of software agents that capture data about a hardware or software component. This data is organized according to a standardized schema. The two most commonly implemented schemas are SNMP Management Information Bases (MIBs) and the Desktop Management Task Force's (DMTF's) Management Information Formats (MIFs).

SNMP has served as the dominant transport mechanism for network management almost from the moment it was created in the late 1980s. Systems management data is sometimes transported via SNMP and sometimes via proprietary APIs. In addition, in 1996 the DMTF selected Remote Procedure Calls (RPCs) as its standard for transporting Desktop Management Interface (DMI) MIF data. Compatible RPC mechanisms are available for 32-bit Windows OSs, NetWare, Solaris, and other leading versions of Unix.

NETWORK MANAGEMENT HITS THE WALL

In the early 1990s, several network management products emerged, including HP OpenView, Sun Microsystems' Solstice and SunNet Manager, IBM's NetView (which began life as an OEM version of OpenView), and Cabletron Systems' Spectrum. These products were designed to offer a set of common services to other management applications, such as product-specific tools for configuring and monitoring routers or hubs.

In some respects, these platforms were highly successful. Device managers from leading networking vendors were generally built on OpenView, SunNet Manager, and NetView (which has had many aliases). The hardware vendors who developed these device managers were spared having to reinvent the wheel; for example, they didn't have to develop an autodiscovery capability. (Spectrum, developed by a company that competes fiercely with all the makers of hubs, switches, and routers, generally included its own management agents for devices built by its competitors.) Furthermore, platform customers could autodiscover devices from multiple vendors, display them on a common map, integrate their events and alarms, and so forth.

While most large enterprises bought one or more network management

platforms and used them for device configuration and monitoring, these products tended to fall short of customers' expectations. One disappointment was the platforms' limited ability to distribute management information to multiple managers instead of to a centralized console.

Another limitation was that third-party developers failed to make complete use of the platforms' facilities. Some applications had only a cosmetic tie to the platforms.

SYSTEMS MANAGEMENT ISLANDS

The roots of systems management are in mainframes, time-sharing systems, transaction monitors, and DBMS. These devices and processes were mission-critical, expensive, and tricky to tune and troubleshoot. As a result, systems management took the form of software built into the primary device or process, or of special utility software that was developed to solve specific problems. As minicomputers found a niche in the enterprise, they brought their own management facilities. When people started smuggling the first PCs into companies, they had no idea such a thing as systems management even existed. Not until the total cost of ownership crisis appeared did companies realize that inventorying PC hardware, monitoring user configurations, reliably distributing client software, and troubleshooting PCs remotely could save a great deal of money and boost user productivity. The consequence of all these developments was islands of systems management, with each type of system requiring its own management tools.

Sometime in the early 1990s, enterprises discovered that their aggregate investments in PCs and PC software were greater than their investments in big iron. Furthermore, the recurring cost of operating desktop PCs was estimated to be as high as six times the acquisition cost.

Gradually, as the DMTF released its standards, and as major PC manufacturers participated in Intel's Wired for Management initiative, more and more installed PCs became capable of supporting resident systems management agents. Now, it's no longer necessary for PCs and PC servers to remain management islands, configured and monitored by special point products.

NO MANAGEMENT IS AN ISLAND

The most sought-after management feature of 1997 and 1998 has been integrated systems and network management. Both IT and line-of-**business** organizations agree that it's ineffective and inefficient to split up fault management, user administration, device configuration, and performance management along IT department lines, requiring multiple application consoles and multiple people to get involved when problems arise or user configurations need changing.

The sort of integration enterprises want doesn't simply route all systems management events and all network management events to a single management station. Instead, the ideal is to devise specific management views or domains that consist of customized selections of devices and processes. Most likely, the guiding principle for creating such domains would be to identify the devices and processes that constitute a

business process. For example, a Web-based order-entry process might include customers with browsers, Internet access to a Web server, Web forms and scripts on the server, a firewall, an access router, a mainframe gateway for verifying credit, and a database containing order-processing and inventory information. Ideally, an order-entry management console could be given access to the specific components that affect each step in this process.

A closely related concept is service-level management, where a line-of-**business** organization and IT agree on certain availability and performance metrics for particular ***business*** processes. An integrated management system is a prerequisite for cleanly implementing service-level management.

INTEGRATED MANAGEMENT PLATFORMS

Leading participants in both the systems management and the network management markets now offer integrated products. There are three predominant suppliers of integrated management platforms today: Computer Associates, with CA Unicenter TNG; Tivoli Systems (Austin, TX), an IBM subsidiary, with its Tivoli line of products; and Hewlett-Packard, with its HP OpenView offerings. Each product line includes a network management component, multiple components for performing systems management functions, and some sort of mechanism for mapping management tasks to **business** processes. All of them can also interoperate with third-party software that provides specialized functions; in many cases, the platform suppliers have formal alliances with these independent software vendors.

All of these platforms are sold as product suites, with core components that perform autodiscovery, display a network map, handle events and alarms, and provide reporting capabilities. In addition, all now have components that perform software distribution, desktop inventory, backup, and anti-virus operations. In other words, the core functions of both network and systems management are available on any of the three integrated platforms.

Make no mistake, though-the products don't all operate the same way, and some perform certain functions better than the others do. The accuracy of autodiscovery, the comprehensiveness of hardware and software inventory, the existence of third-party add-ons, and the flexibility of software distribution to mobile computers may be determining factors in choosing a platform.

A 1997 Gartner Group (Stamford, CT) study found that 18 months after the date of purchase, only 25 percent of respondents had successfully implemented enterprise-management solutions. After 36 months, the number of successful installations climbed to only 30 percent. These numbers show that putting **business**-process-oriented, end-to-end management in place is an expensive and challenging operation. Enterprises with thousands of employees will likely pay hundreds of thousands, if not millions, of dollars for a comprehensive platform-based solution, not including consulting and installation fees or the time that employees spend evaluating, deploying, and debugging. Clearly, a successful implementation will need support from top-level executives, and experienced program managers should be in charge of planning and execution. Expectations will have to be managed carefully to prevent disillusionment, yet the benefits of the system will need to be promoted to fund a project of this scale.

IT managers who enter into an enterprise-scale management project with their eyes open to the pitfalls can avoid becoming another statistic. To justify a large expenditure on enterprise management, it's important to identify particular problems with quantifiable costs, such as excessive downtime resulting from specific faults, or inefficiency that could result from poor system performance.

Unicenter TNG, from Computer Associates (CA), is arguably the leading vendor of integrated systems and network management products. Not unlike Microsoft in the operating system arena, CA markets Unicenter TNG aggressively and works hard to convince third-party developers that Unicenter should be their first target platform. As part of this strategy, CA began giving away its Unicenter TNG Framework in 1997. This framework performs autodiscovery of IP, as well as IPX, SNA, and DECnet nodes; reads SNMP values from connected agents; displays real-time graphs of chosen variables; permits configuration of threshold settings; and much more. The idea is to seed the market with a core product that is useful in itself and that gives network managers a risk-free way to play with the product, and hopefully to develop an appetite for the complete package.

Unicenter's desktop component can connect to DMI clients to retrieve information. For non-DMI-compliant managed objects, Unicenter has its own

agents. Specific management packages are available for common databases, including Oracle, Sybase, Informix, CA-OpenIngres, and SQL Server, and for common applications, such as Exchange, Notes/Domino, and SAP R/3.

Unicenter TNG permits the definition of **business**-process views, a select grouping of devices and processes that is associated with a particular ***business*** process. Depending on the degree of instrumentation installed on the individual objects, **business**-process views may be able to provide the foundation for service level agreements between IT and line-of- ***business*** organizations.

In September 1998, CA released a line of standalone management products including AimIT, an asset- and inventory- management tool; ShipIT, a software distribution and installation product; ServiceIT, a help desk product; ControlIT, a remote control product (formerly known as Remotely Possible); InoculateIT, an anti-virus tool (formerly Inoculan); and NetworkIT, an IP/IPX network manager.

The IT series of products is based on the Unicenter TNG Framework and, in some instances, amounts to a repackaging of Unicenter TNG modules. Because these products stand alone, IT managers can install them step-by-step in smaller cost increments, though such installation would be more costly than purchasing Unicenter TNG, just as building a car from spare parts would cost more than buying a new car.

Each of the IT-series products comes in both workgroup and enterprise versions, reducing the entry barriers for small and medium-sized businesses. For large enterprises that are unwilling or unable to make a disciplined commitment to a comprehensive, integrated management system, these offerings provide a less-daunting alternative.

The Tivoli management product line is just as extensive as CA's. After IBM acquired the company, Tivoli inherited the highly capable NetView 6000 network management application, along with a number of OS/390 and OS/400 tools. Like CA, Tivoli has a strong, integrated help desk offering. (Tivoli acquired Software Artistry in January 1998 for its help desk product.) Tivoli applications can communicate with DMI agents, and Tivoli-specific agents are also available for many devices and processes. Some application-specific products help manage Exchange, Notes/Domino, IBM's MQSeries middleware, Netscape Communications' SuiteSpot products, and various relational databases-DB2, Oracle, Sybase, Informix, and SQL Server.

The Tivoli Event Console (TEC) can accept input from the SNMP network management platforms made by HP, Sun, Cabletron, and its own NetView, as well as from DMI-instrumented objects. It can also accept input from Unix and Windows NT log files; NetWare; and OS/390, AS/400, and Tandem devices. The TEC has a GUI rule builder that lets the manager define automated responses to all these classes of events, and eliminate overlap and duplication. The TEC also lets managers assign responsibility for events to departments or individuals based on their **business**-process participation-a significant first step on the road to service-level management.

Tivoli's LAN Access works cooperatively with Intel's LANDesk Management Suite, IBM's Netfinity, and Microsoft's Systems Management Server to perform software distribution, to inventory desktops, and to process events. With LAN Access, objects in one of the compatible desktop-management offerings can automatically populate the Tivoli database.

Tivoli also released IT Director, an integrated systems management product that handles desktops, servers, networks, and applications. IT Director can perform software distribution, process automation, and inventory tasks. With a product like this one aimed at medium-sized organizations, Tivoli can address a broader market than the large enterprises that make up the company's traditional base.

HP OpenView has been the leading network management platform (and still is today), but until 1997 it looked as though HP had no intention of

expanding into systems management. Now the picture has changed completely: HP has a comprehensive set of systems management offerings. The HP approach differs from CA's and Tivoli's by not relying on an underlying framework. Instead, the various OpenView components can be adopted incrementally as specific services are needed. However, comprehensive integration among different OpenView modules is suspect, especially where newly acquired products are concerned.

IT/Operations is the OpenView module for problem management. It tracks the availability of systems, networks, databases, and applications; processes events and alarms as they occur; and offers automated responses to particular fault conditions. IT/Administration handles inventory, configuration, and change tracking for Unix and PC environments. It can be used to define configuration policies and to verify whether changes in configuration comply with them.

PerfView and the complementary MeasureWare Agent provide application-performance measurement. PerfView can send alarms to a management console when performance dips below a defined threshold. IT Service Manager, HP's help desk product, is designed to be driven by service level agreements.

Other modules include software distribution, desktop management, backup, and asset life-cycle management. Like the other two enterprise-management platforms, OpenView is compliant with SNMP and DMI standards. There are also specific OpenView integration modules for relational databases and other popular server-based software (see "Alternate Approaches to Integrated Management").

APPLICATION MANAGEMENT

One issue that remains to be solved with integrated network and systems management is the ability to fully troubleshoot and track the performance of applications software in a standard fashion. True end-to-end management requires visibility into these highest-layer endpoints of any **business** process, but this area is the least standardized and least implemented.

HP and Tivoli jointly defined an Application Response Measurement (ARM) API in 1996. Tivoli uses a broader Application Management Specification (AMS) in its products, but few applications vendors have chosen to install the sorts of management hooks defined by these APIs.

Computer Associates has its own application management API, and has technical reservations about the completeness of AMS and its viability as a candidate for standardization. Yogesh Gupta, CA's senior vice president of product strategy, believes that application management ought to include application security, backup, and recovery elements, as well as configuration and performance elements.

Meanwhile, in October 1998, the leading RMON vendor, Netscout Systems (Westford, MA), published its Application Response Time (ART) MIB as an Internet draft for further consideration by the IETF. The DMTF has an active committee responsible for application-software management standards, and a MIF for software that covers such configuration details as the names, sizes, and locations of component executable files has been published. However, a DMTF specification that would address fault and performance management has not yet emerged.

The absence of highly granular, interoperable applications-software management specifications is probably the biggest obstacle to fully capable, end-to-end management tied to ***business*** processes. As the Y2K

issue has demonstrated, software is so expensive to develop and maintain that in many cases it stays in service practically forever. It has taken a couple of years for a substantial fraction of desktop PCs to become highly manageable, but it will more likely take a couple of decades for software to reach that stage, if manageability can only be implemented when the applications are replaced. The best hope for application management is a

method of gathering information about fault behavior, configuration, and performance without rewriting or replacing software. But it's not clear that such a project is possible.

THE FUTURE OF INTEGRATED MANAGEMENT

1998 has seen many important developments in the systems and network management arena. The adoption of Common Information Model (CIM) 2.0 is an important step in giving management applications access to various instrumentation sources, and the organization's adoption of an XML-based management transport mechanism will make integration among applications easier and more reliable.

Millions of copies of the Unicenter TNG Framework have been distributed; it has been bundled with servers from leading hardware manufacturers and will be included with Windows NT Server 5.0. The Tivoli Management Agent is included in systems that are compliant with Intel's Wired for Management initiative, with Compaq Computer and IBM PCs, and with 3Com and Intel NICs.

A policy-driven, end-to-end, integrated management system organized by **business** processes and governed by service level agreements is within reach, though creating it will require substantial financial resources, executive attention, planning, and technical talent.

Steve Steinke, editor-in-chief, can be reached at ssteinke@mfi.com.

Hewlett-Packard's Web site (www.hp.com/openview/library/papers.html) has numerous white papers covering service level agreements, application-performance management, and other subjects.

Computer Associates' site (www.cai.com/products/unicenter_analyst.htm) has some 25 analyst reports on Unicenter TNG and other management-platform products.

Tivoli Systems' white papers, located at www.tivoli.com/o_products/html/prod_tech_papers.html, include analyst reports, strategy statements, and integration advice.

Cabletron Systems' white papers, available at www.cabletron.com/white-papers/, include several implementation-oriented service-level discussions as well as product-specific material.

The Darmstadt University of Technology (Darmstadt, Germany) Web site has a thorough archive (in English) of relevant systems and network management documents. You can find them at www.informatik.th-darmstadt.de/VS/Forschung/Management/overview.html.

If you are a communications service provider—a local exchange carrier, a long distance provider, or an ISP—you likely have a clearly demarcated management domain for your customers. In this case, end-to-end management, including end systems and applications, is irrelevant to your requirements, though customers may wish to feed your network management information into their end-to-end management systems. Sun Microsystems, with its Solstice line of network management platforms, has focused on this telecommunications market and has not pursued the integrated systems management market.

Cabletron Systems has shown remarkable persistence with its Spectrum network management platform over the years, and Spectrum has been the first to offer a number of important features. However, Cabletron must depend on alliances with BMC (Houston), Computer Associates, and Tivoli Systems (Austin, TX) to participate in the end-to-end management market. BMC in particular has customized its systems management agents to interoperate with Spectrum's object-oriented modeling environment, and a product called **Business** Continuity Management, from Intelligent Communication Software (Munich, Germany), permits the ready definition of **business** processes that hierarchically tie to multiple layers of applications, devices, and subprocesses.

Micromuse (San Francisco) was one of the first companies to discern the need for management organized by **business** processes rather than

by technical specialties. Micromuse's Netcool/Omnibus receives events from various sources: network management platforms, vendor-specific SNMP applications, systems management products (including BMC Patrol), common relational databases, and Unix and Windows NT operating system logs. The product also permits users to organize event displays and actions based on their participation in ***business*** processes. The Netcool/Omnibus engine, ObjectServer, also correlates events and removes duplication. If the **business**-process views available from Computer Associates, Tivoli, or Hewlett-Packard don't provide the features you require, it would be worthwhile to investigate the Micromuse offering.

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TRADE NAMES: CA-Unicenter/The Next Generation (Network management software)

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Meeting the Internet Challenge: Erik Grimmelman, VP of Network and Access, AT&T WorldNet

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With the Internet on the brink of becoming an indispensable communications and commerce tool, Internet service providers are in the middle of an unprecedented transformation. They're evolving their services to better serve the corporate world with the promise of new higher-bandwidth, guaranteed-quality services. InternetWeek's John Rendleman spoke recently with Erik Grimmelman, vice president of network and access at AT&T WorldNet, to assess the Internet's prospects and potential.

InternetWeek: How do you see the infrastructure of the Internet evolving, short-term and long-term?

Grimmelman: With the Internet, it's very hard to predict exactly when things will happen, and there won't be many more crisp milestones. ISPs and the Internet will evolve in a wide variety of areas. First will be quality of service guarantees, and grades of service will be sold separately. It's not clear exactly how that will be implemented but IP switching is one possibility. There are also a lot of opportunities for push technologies, and voice traffic on the Internet will certainly be growing, especially in the next year.

InternetWeek: What are the top three barriers to the more wide-scale adoption of Internet and IP technologies by major corporate businesses, and what will AT&T do to help alleviate those concerns?

Grimmelman: The first barrier is lack of secure, closed user groups with easy and reliable management of those groups. One can do it today, but it's not easy yet. AT&T is working actively on that using source address assurance techniques. The second barrier is the grades of service and quality of service issues. We are working on the network and on specific services that have service level guarantees. The third barrier is lack of better directories to locate people, information and resources. This is an area where you'll see contributions from across the Internet community. Within the next 12 to 18 months, we'll see a lot of progress in this area.

InternetWeek: For a carrier such as AT&T, will the Internet continue to exist as a separate network from the network that carries the rest of your data traffic?

Grimmelman: At the transport layer, there is full integration. At Layer 2, the networks are different. Over time at Layer 2 there will be convergence, and it's likely that before too long our Internet traffic will go over the same network that carries the rest of the traffic. At Layer 3, the protocol level, the networks are inherently different and convergence doesn't really make sense.

InternetWeek: What step is AT&T taking to integrate its Internet traffic with its existing frame relay and ATM network infrastructures?

Grimmelman: Basically, today we use ATM as the **interconnection** ***fabric*** between our router complexes. The router-to-router traffic goes over an ATM switch locally within the building, and there are private lines over the wide area between router complexes. Using ATM locally gives us an easy evolution to using it to connect over the wide area, and we will use ATM permanent virtual circuits to connect the router complexes over the wide area, but we don't have a definite time frame on that.

InternetWeek: What are AT&T's plans for priority-delivery IP services?

Grimmelman: Our plans aren't finalized, although we will certainly offer such services. As far as the protocols, it doesn't look like RSVP (resource reservation protocol) will make much sense as a way to implement reservations-based services within the network, although it's a good way for users to request a reservation. Consequently, we need something else in the network to implement those reservations. ATM quality of service is certainly a very strong if not a leading contender, although some other proposals, ATM over Sonet, for instance, are also promising and we're looking at those as well, even though they're not as far along.

InternetWeek: What other value-added services will AT&T introduce to make the Internet easier for corporations to use?

Grimmelman: Right now, the Internet is only very loosely coupled with the applications that use it. You can't get special treatment for a particular application, so the concept of controlling an IP network is very important. Within the next five years, couplings between the applications and the Internet itself will become much stronger, for instance, with the ability to reserve bandwidth and handle security. In addition, caching will become much more prevalent, and content will be stored much closer to users.

InternetWeek: Will corporate customers continue to view and use the Internet as separate from their more traditional data networks?

Grimmelman: Eventually, no. Most traffic today over private networks is already IP, and even those that aren't IP are being converted to IP. Over time, customers will increasingly begin to buy "IP dial tone," and the long-term trend is that the Internet will become indistinguishable from the more traditional data networks.

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IBM UNVEILS SYSTEM SOFTWARE ENHANCEMENTS FOR NEW POWERPARALLEL SYSTEMS
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IBM UNVEILS SYSTEM SOFTWARE ENHANCEMENTS

FOR NEW POWERPARALLEL SYSTEMS

NEW YORK, NY, Aril 5, 1994 -- IBM today announced enhancements to system software for the Scalable POWERparallel Systems SP1* and SP2* in the areas of system management, job scheduling and parallel Programming.

These enhancements are an important contributor to the POWERparallel system's flexibility, allowing it to be used easily and effectively for both numeric-intensive computing and sophisticated data analysis.

System management software has been expanded in the areas of ease-of-use, installation, resource control and system administration. This increased flexibility allows system resources to be allocated to satisfy the needs of many diverse and concurrent serial, parallel, interactive and batch workloads.

These system support programs include the following components unique to the POWERparallel system: System Management - includes the base code required to install, customize and maintain the POWERparallel system from a control workstation. It also includes tools developed to help manage the system including user management, print support, file collection, login control, parallel job accounting and system shutdown? startup.

System Monitor - enables the system administrator to monitor and control the POWERparallel system from a single control point. It displays hardware problems and runs node diagnostics.

Resource Manager - accepts job resource requirements from the network-based job manager, Il ioadseveLer*, matches them against the system resources available from its resource pools, and reserves the best candidate nodes for the job.

System Data Repository - provides data storage and retrieval across the control workstation and nodes of the POWERparallel system. Data is maintained about the system configuration, hardware status and jobs in execution or awaiting execution.

Communication Subsystem Support - provides the foundation needed to support the High Performance Switch, including power on/off, initialization, fault detection and retry and provides the user programming interfaces for parallel program task communications.

Virtual Shared Disk (VSDJ - an application interface that allows

Logical disk volumes to be created so that parallel applications may access a real disk device independent of whether it is attached locally or on another node.

In addition, system management tools for I1's RISC System/6000* family of workstations and servers can also be utilized on the POWERparallel system including:

AIX Performance Toolbox/6000* and AIX Performance Aide/6000* - used to monitor performance of nodes in an SP2 cluster. The data generated can be used for identifying performance bottlenecks and for balancing workloads between nodes.

NSL Unitree - can be used for hierarchical archiving and retrieval of data on the SP2.

IBM also announced statements of direction for the following system management tools:

AIX System View NetView/6000* - a Motif/X Window System for managing problems across the network (including the POWERparallel System SP2) including the creation and linking of incident reports, the tracking of resolution actions, the gathering of network performance data and the management of the network.

By using Systems Monitor/6000*, Netview/6000 will provide connectivity with I1 NetView Service Point* so POWERparallel systems can be managed by a S/390* host running Netview/390* across an SNA network.

Systems Monitor/6000 - provides support for distributed network monitoring of the POWERparallel system by gathering and analyzing operational statistics, filtering relevant data, and routing commands to the POWERparallel system.

ADSTAR Distributed Storage Manager (SM)/6000y - provides centrally-scheduled, policy-managed facilities that can be used to automate the process of backing up or archiving from an SP2 client to an DSM server running on AIX/6000, OS/2, MVS or VM. ADSTAR provides a powerful storage hierarchy that balances storage resources on disk, optical and tape storage devices, and optimizes the use of storage media by compressing and migrating data and reclaiming unused storage space.

IBM Loadleveler 1.1.3, a distributed, network-based job scheduling program, now supports the SP2. It is used in conjunction with system management software to match jobs with resource requirements and control their execution.

A systems administrator, for example, can divide a subset of the SP2 nodes into domains using system management software. Some nodes could be reserved for interactive jobs during the day and batch jobs at night, while others could be allocated only for parallel workloads. Loadleveler works with the Resource Manager to automatically match the best candidate nodes to the jobs requesting them, reserves those nodes, starts the jobs and then monitors their progress.

The Parallel File System developed by I1 Research greatly reduces the file I/O performance bottleneck typically associated with file systems on parallel machines. It provides the SP2 with scalable, high-bandwidth parallel file access directly over the High Performance Switch **interconnection fabric**

to data files which have

been distributed over multiple server nodes.

The IBM AIX Parallel Environment* provides all of the necessary components required to develop, debug, analyze, tune and execute parallel applications on the POWERparallel systems SP1 and SP2. AIX Parallel Environment contains tools designed to support the development and analysis of parallel applications, written in

FORTRAN, C or C++. The components of AIX Parallel Environment are:

Parallel Message Passing Library - libraries of message-passing, collective communication and task management subroutines for communications between the executing tasks of a parallel program.

Parallel Operating Environment - eases the transition from serial to parallel processing by allowing the use of standard tools, techniques and interfaces including program compilation, scheduling, execution and monitoring in a manner familiar to the mIx** programmer. Parallel Operating Environment also gathers statistics and job profile data as a parallel job executes.

Parallel Debugger - based on and maintains the same look and feel as the popular dbx debugger available on AIX/6000 and other UNIX operating systems. All dbx commands are supported with additional commands available specifically for parallel application debugging. In addition, an X Window System graphical interface is provided.

Visualization Tool - allows a user to graphically see how a parallel application is running to aid in analysis and performance tuning. The Visualization Tool provides both predefined and user configurable graphical views of events that take place within the application, within the Parallel Operating Environment or within the AIX kernel.

IBM AIX PVM Version 1 Releases 2 and 3 are also available for the POWERparallel system. This application provides support for parallel application execution on the POWERparallel system configured with the High Performance Switch feature.

AIX P'VME is source and object compatible with the widely used Parallel Virtual Machine (P'VM) available from Oak Ridge National Laboratory at the Version 3.2.5 level. An application containing PVM constructs currently running on any one of the many parallel computing systems supported by P'VM Version 3.2.5 can be migrated to a POWERparallel system with the High Performance Switch, and can be executed using P'VME. Doing so requires no changes to the PVM constructs; customers relink the application with the P'VME Library instead of the public domain P'VM library. P'VME Release 2 will provide these functions for the SP1; Release 3 will provide them for the SP1 and SP2.

Previously available connectivity software products will support the SP2. Client IO/Sockets provide high speed data transfer and access to tape devices on a network of workstations (including SP2 nodes) and mainframes. InterMix allows a customer to submit jobs to an MVS mainframe from a UNIX workstation as well as access data in a UNIX file tree structure from that mainframe.

World-Class Systems

Il's POWER Parallel Systems **business** unit produces world-class scalable, parallel information systems for commercial and scientific? technical customers.

The Il Scalable POWERparallel Systems 9076 SP1 and SP2* feature design and performance leadership, offer exceptional reliability and versatility, and deliver high performance computing at workstation price/performance Levels.

Headquartered in Somers, N.Y., IBM's POWER Parallel Systems **business** unit also draws on resources from the Il Large Scale Computing Division, Il RISC System/6000 Division and Il Research.

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INDUSTRY NAMES: BUS (**Business**, General); BUSN (Any type of **business**)

NAICS CODES: 51121 (Software Publishers)

TICKER SYMBOLS: IBM

? ds

Set	Items	Description
S1	0	TRAD? BID? OFFER?
S2	12335551	TRAD? OR BID? OR OFFER?
S3	57	INTERCONNECTION (W) FABRIC
S4	4	S3 (S) S2
S5	2	RD (unique items)
S6	25906009	BUSINESS
S7	47	S6 AND S3
S8	27	RD (unique items)
S9	21	S8 AND PY<=2001

? save temp fabric

Temp SearchSave "FABRIC" stored

Ref #	Hits	Search Query	DBs	Default Operator	Plurals
L1	343	(central centraliz\$3) with: management: with: platform	US-PGPUB; USPAT; USOCR	OR	OFF
L2	603	(electronic internet virtual) with(trad\$3 bid\$3 offer\$3) with (community forum group)	US-PGPUB; USPAT; USOCR	OR	OFF
L3	1	I1 same I2	US-PGPUB; USPAT; USOCR	OR	OFF
L4	4	I1 and I2	US-PGPUB; USPAT; USOCR	OR	OFF
L5	1011	interconnection with fabric	US-PGPUB; USPAT; USOCR	OR	OFF
L6	1	I2 and I5	US-PGPUB; USPAT; USOCR	OR	OFF
L7	1	I1 and I5	US-PGPUB; USPAT; USOCR	OR	OFF
L8	142	rosettanel	US-PGPUB; USPAT; USOCR	OR	OFF
S1	559	process gateway	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON
S2	10560	transaction system	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON
S3	3110	(multiple or multivariate or multi) (party or parties)	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON
S4	0	S1 S2 S3	US-PGPUB; USPAT; USOCR; DERWENT	SAME	ON
S5	22	S2 S3	US-PGPUB; USPAT; USOCR; DERWENT	SAME	ON
S6	2900	legacy near system	US-PGPUB; USPAT; USOCR; DERWENT	SAME	ON
S7	3957	legacy near2 system	US-PGPUB; USPAT; USOCR; DERWENT	SAME	ON
S8	35489	transaction near3 system	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON
S9	1890	process near3 gateway	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON

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S13	1	S12 S7	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON
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S14	2	("2002/0128946").URPN.	USPAT	OR	OFF
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L1	343	(central centraliz\$3) with management with platform	US-PGPUB; USPAT; USOCR	OR	OFF
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L3	1	I1 same I2	US-PGPUB; USPAT; USOCR	OR	OFF
L4	4	I1 and I2	US-PGPUB; USPAT; USOCR	OR	OFF
S1	559	process gateway	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON
S2	10560	transaction system	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON
S3	3110	(multiple or multivariate or multi) (party or parties)	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON
S4	0	S1 S2 S3	US-PGPUB; USPAT; USOCR; DERWENT	SAME	ON
S5	22	S2 S3	US-PGPUB; USPAT; USOCR; DERWENT	SAME	ON
S6	2900	legacy near system	US-PGPUB; USPAT; USOCR; DERWENT	SAME	ON
S7	3957	legacy near2 system	US-PGPUB; USPAT; USOCR; DERWENT	SAME	ON
S8	35489	transaction near3 system	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON
S9	1890	process near3 gateway	US-PGPUB; USPAT; USOCR; DERWENT	NEAR	ON

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	X		US 20050060324 A1	20050317	218	System and method for creation and maintenance of a rich content or content-centric electronic catalog	707/100
2	X		US 20050060212 A1	20050317	28	System and method for automating integration of semiconductor work in process updates	705/7
3	X		US 20050055279 A1	20050310	8	Flexible tax calculation architecture	705/19
4	X		US 20050044173 A1	20050224	7	System and method for implementing business processes in a portal	709/217
5	X		US 20050038724 A1	20050217	112	Methods and apparatus for enabling transaction relating to digital assets	705/35
6	X		US 20050038707 A1	20050217	129	Methods and apparatus for enabling transactions in networks	705/21
7	X		US 20050034107 A1	20050210	56	Method and apparatus for frame-based knowledge representation in the unified modeling language (uml)	717/136
8	X		US 20050027811 A1	20050203	12	Computer-implemented method of, and system for, messaging in a computer network	709/207

	Current XRef	Retrieval Classification	Inventor	S	C	P	2	3	4	5
1			Johnson, Jerry et al.							
2			Annamaneni, Sabhapathi N. et al.							
3			Baur, Walter K. et al.							
4			Olander, Daryl B. et al.							
5			Roever, Stefan et al.							
6			Roever, Stefan et al.							
7			Kendall, Elisa Finnie et al.							
8	709/224		Kraft, Frank Michael							

	Image Doc. Displayed	PT
1	US 20050060324	
2	US 20050060212	
3	US 20050055279	
4	US 20050044173	
5	US 20050038724	
6	US 20050038707	
7	US 20050034107	
8	US 20050027811	

	U	1	Document ID	Issue Date	Pages	Title	Current OR
9	X		US 20050010475 A1	20050113	1251	Internet-based brand management and marketing communication instrumentation network for deploying, installing and remotely programming brand-building server-side driven multi-mode virtual Kiosks on the World Wide Web (WWW), and methods of brand marketing communication between brand marketers and consumers using the same	705/14
10	X		US 20050010456 A1	20050113	21	Systems and methods for monitoring and controlling business level service level agreements	705/7
11	X		US 20050004838 A1	20050106	1251	Internet-based brand management and marketing communication instrumentation network for deploying, installing and remotely programming brand-building server-side driven multi-mode virtual kiosks on the World Wide Web (WWW), and methods of brand marketing communication between brand marketers and consumers using the same	705/14
12	X		US 20040267636 A1	20041230	13	Compact item descriptor, catalog system and item part number validation	705/27

	Current XRef	Retr ieva l Clas sif	Inventor	S	C	P	2	3	4	5
9			Perkowski, Thomas J. et al.							
10			Chang, Hung-Yang et al.							
11			Perkowski, Thomas J. et al.							
12			Ouchi, Norman Ken							

	Image Doc. Displayed	PT
9	US 20050010475	
10	US 20050010456	
11	US 20050004838	
12	US 20040267636	

	U	1	Document ID	Issue Date	Pages	Title	Current OR
13	X		US 20040243595 A1	20041202	20	Database management system	707/100
14	X		US 20040230841 A1	20041118	10	Method and system for access to development environment of another	713/202
15	X		US 20040225508 A1	20041111	16	Reusable canonical e-business process	705/1
16	X		US 20040221179 A1	20041104	12	Method and system for access to development environment of another in a secure zone	713/202
17	X		US 20040210479 A1	20041021	510	Internet-based brand marketing communication instrumentation network for deploying, installing and remotely programming brand-building server-side driven multi-mode virtual kiosks on the World Wide Web (WWW), and methods of brand marketing communication between brand marketers and consumers using the same	705/14
18	X		US 20040193506 A1	20040930	31	Collaborative product taxonomy instantiation	705/27
19	X		US 20040186891 A1	20040923	24	Apparatus and methods for correlating messages sent between services	709/206
20	X		US 20040172442 A1	20040902	32	System and Method for Sharing Data Between Hierarchical Databases	709/200

	Current XRef	Retr ieva l Clas sif	Inventor	S	C	P	2	3	4	5
13			Cui, Zhan et al.							
14			Savini, Patrice							
15			Urali, Prem S.							
16			Seshadri, Omkumar							
17			Perkowski, Thomas J. et al.							
18			Zmolek, John							
19	709/238		Panec, Peter A. et al.							
20			Ripley, John R.							

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13	US 20040243595	
14	US 20040230841	
15	US 20040225508	
16	US 20040221179	
17	US 20040210479	
18	US 20040193506	
19	US 20040186891	
20	US 20040172442	

	U	1	Document ID	Issue Date	Pages	Title	Current OR
21	X		US 20040153378 A1	20040805	136	Method of and system for enabling access to consumer product related information and the purchase of consumer products at points of consumer presence on the world wide web (WWW) at which consumer product information request (CPIR) enabling servlet tags are embedded within HTML-encoded documents	705/27
22	X		US 20040153350 A1	20040805	28	System and method of executing and controlling workflow processes	705/8
23	X		US 20040139426 A1	20040715	30	Enterprise multi-agent software system	717/120
24	X		US 20040139095 A1	20040715	25	Method and system for integrating interaction protocols between two entities	707/100
25	X		US 20040103182 A1	20040527	24	Distribution in master data management	709/223
26	X		US 20040103103 A1	20040527	17	Collaborative master data management	707/100
27	X		US 20040093580 A1	20040513	11	System and methodology for mobile e-services	717/101
28	X		US 20040088352 A1	20040506	6	Business to business integration via the web	709/203
29	X		US 20040078316 A1	20040422	18	Network directory for business process integration of trading partners	705/37

	Current XRef	Retr ieva l Clas sif	Inventor	S	C	P	2	3	4	5
21			Perkowski, Thomas J.							
22			Kim, Yeong-Ho et al.							
23	706/45		Wu, Yuh-Cherng							
24			Trastour, David et al.							
25			Krabel, Markus et al.							
26			Kalthoff, Wolfgang et al.							
27	709/203; 709/224		Carson, Carollyn et al.							
28	709/229		Kurth, Lloyd N.							
29			Clark, Gregory Scott et al.							

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21	US 20040153378	
22	US 20040153350	
23	US 20040139426	
24	US 20040139095	
25	US 20040103182	
26	US 20040103103	
27	US 20040093580	
28	US 20040088352	
29	US 20040078316	

	U	1	Document ID	Issue Date	Pages	Title	Current OR
30	X		US 20040068728 A1	20040408	26	Systems and methods for collaborative business plug-ins	718/100
31	X		US 20040068568 A1	20040408	36	Enterprise application platform	709/227
32	X		US 20040068526 A1	20040408	15	Mapping schemes for creating and storing electronic documents	707/203
33	X		US 20040044689 A1	20040304	17	Central master data management	707/104.1
34	X		US 20040034607 A1	20040219	9	Validating communication between participants in an electronic interaction	705/80
35	X		US 20040030627 A1	20040212	16	Web services broker	705/36
36	X		US 20040025169 A1	20040205	12	Systems and methods for maintaining transactional persistence	719/315
37	X		US 20040025117 A1	20040205	23	Registry driven interoperability and exchange of documents	715/523
38	X		US 20040015564 A1	20040122	19	Method of developing a web service and marketing products or services used in developing a web service	709/219
39	X		US 20040010611 A1	20040115	12	Single servlets for B2B message routing	709/230
40	X		US 20040006663 A1	20040108	7	System and method for storing large messages	711/1
41	X		US 20030236718 A1	20031225	42	Buyer, multi-supplier, multi-stage supply chain management system	705/28

	Current XRef	Retrieval Classification	Inventor	S	C	P	2	3	4	5
30	719/315		Blevins, Mike							
31			Griffin, Philip B. et al.							
32			Singh, Veshall							
33			Krabel, Markus et al.							
34			Piccinelli, Giacomo							
35			Sedukhin, Igor							
36			Wiser, David et al.							
37			Ingersoll, Christopher Todd et al.							
38			Williams, Scott Lane							
39			Wiser, David							
40			Wiser, David et al.							
41			Yang, Lou Ping et al.							

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30	US 20040068728	
31	US 20040068568	
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33	US 20040044689	
34	US 20040034607	
35	US 20040030627	
36	US 20040025169	
37	US 20040025117	
38	US 20040015564	
39	US 20040010611	
40	US 20040006663	
41	US 20030236718	

	U	1	Document ID	Issue Date	Pages	Title	Current OR
42	X		US 20030236693 A1	20031225	36	Method of implementing a collaborative business process	705/9
43	X		US 20030236689 A1	20031225	13	Analyzing decision points in business processes	705/7
44	X		US 20030236677 A1	20031225	24	Investigating business processes	705/1
45	X		US 20030233395 A1	20031218	8	Conformance testing without reference implementation of an XML standard	709/2 00
46	X		US 20030233290 A1	20031218	43	Buyer, multi-supplier, multi-stage supply chain management system with lot tracking	705/2 8
47	X		US 20030233289 A1	20031218	43	Multi-stage supply chain management system with dynamic order placement	705/2 8
48	X		US 20030212818 A1	20031113	32	Content based message dispatch	709/2 38
49	X		US 20030208526 A1	20031106	24	Method for reducing communication data amount in business to business electronic commerce	709/2 01
50	X		US 20030208374 A1	20031106	14	System and method for electronic business transaction reliability	705/1
51	X		US 20030200155 A1	20031023	9	Catalog, catalog query, and item identifier for a physical item	705/2 7
52	X		US 20030187757 A1	20031002	9	Targeted catalog information publication	705/2 8
53	X		US 20030184585 A1	20031002	20	Method for dynamically generating a user interface from XML-based documents	715/7 63

	Current XRef	Retrieval Classification	Inventor	S	C	P	2	3	4	5
42			Chen, Qiming et al.							
43			Casati, Fabio et al.							
44	709/217		Casati, Fabio et al.							
45			Cherian, Sanjay John et al.							
46			Yang, Lou Ping et al.							
47			Yang, Lou Ping et al.							
48	709/219		Klein, Johannes et al.							
49			Imanishi, Junichi et al.							
50			Mangtani, Komal et al.							
51			Ouchi, Norman Ken							
52			Ouchi, Norman Ken							
53			Lin, George et al.							

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42	US 20030236693	
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45	US 20030233395	
46	US 20030233290	
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48	US 20030212818	
49	US 20030208526	
50	US 20030208374	
51	US 20030200155	
52	US 20030187757	
53	US 20030184585	

	U	1	Document ID	Issue Date	Pages	Title	Current OR
54	X		US 20030172051 A1	20030911	12	Catalog, catalog query, and item identifier for configurable items	707/1
55	X		US 20030154154 A1	20030814	14	Trading partner conversation management method and system	705/37
56	X		US 20030154127 A1	20030814	16	Manufacturer incentive system	705/14
57	X		US 20030149791 A1	20030807	10	System and method for routing data by a server	709/246
58	X		US 20030149578 A1	20030807	62	Intelligent procurement agent	705/1
59	X		US 20030144860 A1	20030731	17	Dynamic conversation logic selection method and system	705/1
60	X		US 20030144852 A1	20030731	19	Providing highly automated procurement services	705/1
61	X		US 20030139975 A1	20030724	161	Method of and system for managing and serving consumer-product related information on the world wide web (WWW) using universal product numbers (UPNS) and electronic data interchange (EDI) processes	705/26
62	X		US 20030135825 A1	20030717	18	Dynamically generated mark-up based graphical user interfaced with an extensible application framework with links to enterprise resources	715/513
63	X		US 20030135482 A1	20030717	27	Method for transforming data between business protocols	707/1

64	X		US 20030120730 A1	20030626	13	Transformational conversation definition language	709/2 04
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	Current XRef	Retr ieva l Clas sif	Inventor	S	C	P	2	3	4	5
54			Ouchi, Norman Ken							
55			Sayal, Mehmet et al.							
56	705/37		McAuliffe, Barry S. et al.							
57	709/201		Kane, Timothy R. et al.							
58			Wong, Yek-Meng							
59			Casati, Fabio et al.							
60			Eckert, Frieder et al.							
61			Perkowski, Thomas J.							
62			Gertner, Matthew et al.							
63			Takahashi, Makoto et al.							

64	709/246		Kuno, Harumi Anne et al.							
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63	US 20030135482	

64	US 20030120730	
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65	X		US 20030115115 A1	20030619	17	Private exchange catalog system and methods	705/27
66	X		US 20030088543 A1	20030508	38	Vocabulary and syntax based data transformation	707/1
67	X		US 20030083910 A1	20030501	21	Method and system for integrating workflow management systems with business-to-business interaction standards	705/7
68	X		US 20030079029 A1	20030424	9	Single system user identity	709/229
69	X		US 20030065726 A1	20030403	15	Combined message broker	709/206
70	X		US 20030065725 A1	20030403	15	Verified message broker	709/206
71	X		US 20030061405 A1	20030327	26	System, method and computer program product for protocol-independent processing of information in an enterprise integration application	713/375
72	X		US 20030061121 A1	20030327	11	Catalog and item identifier for configurable items	705/27
73	X		US 20030053459 A1	20030320	30	System and method for invocation of services	370/392
74	X		US 20030041178 A1	20030227	27	System and method for routing messages between applications	719/313
75	X		US 20030037153 A1	20030220	23	Information transfer protocol system and private exchange	709/230
76	X		US 20030036968 A1	20030220	20	Process & transformation private exchange	705/26

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65	705/29		Ouchi, Norman Ken							
66	715/513; 715/523		Skeen, Marion Dale et al.							
67			Sayal, Mehmet et al.							
68			Garimella, Sandilya et al.							
69	709/249		Wells, David J. et al.							
70	709/249		Delmer, Jean- Francois et al.							
71	719/313		Fisher, Randall et al.							
72			Ouchi, Norman Ken							
73	370/400		Brouk, Lev et al.							
74	709/238		Brouk, Lev et al.							
75			Ouchi, Norman Ken							
76			Ouchi, Norman Ken							

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69	US 20030065726	
70	US 20030065725	
71	US 20030061405	
72	US 20030061121	
73	US 20030053459	
74	US 20030041178	
75	US 20030037153	
76	US 20030036968	

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77	X		US 20030036917 A1	20030220	11	Service provision system and method	705/1
78	X		US 20030028389 A1	20030206	29	Modeling toll for electronic services and associated methods	705/1
79	X		US 20030023538 A1	20030130	19	Apparatus, system and method for automatically making operational selling decisions	705/3 7
80	X		US 20030023499 A1	20030130	19	Apparatus, system and method for automatically making operational purchasing decisions	705/2 6
81	X		US 20030023450 A1	20030130	24	Modeling tool for electronic services and associated methods and business	705/1
82	X		US 20030019923 A1	20030130	8	Unification code program recorded storage medium and unification code system	235/3 75
83	X		US 20030018808 A1	20030123	29	System and method for mapping of services	709/2 38
84	X		US 20030018660 A1	20030123	17	Method and apparatus for instance based data transformation	715/5 00
85	X		US 20030009392 A1	20030109	302	Internet-based consumer product brand marketing communication system which enables manufacturers, retailers and their respective agents, and consumers to carryout product-related functions along the demand side of the retail chain in an integrated manner	705/2 6

	Current XRef	Retrieval Classification	Inventor	S	C	P	2	3	4	5
77			Hite, Thomas D. et al.							
78			Casati, Fabio et al.							
79			Das, Rajarshi et al.							
80			Das, Rajarshi et al.							
81			Casati, Fabio et al.							
82			Park, Sang-Chan							
83			Brouk, Lèv et al.							
84			Martin, Thomas J. et al.							
85			Perkowski, Thomas J.							

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77	US 20030036917	
78	US 20030028389	
79	US 20030023538	
80	US 20030023499	
81	US 20030023450	
82	US 20030019923	
83	US 20030018808	
84	US 20030018660	
85	US 20030009392	

	U	1	Document ID	Issue Date	Pages	Title	Current OR
86	X		US 20020198791 A1	20021226	309	Internet-based consumer product brand marketing communication system which enables manufacturers, retailers and their respective agents, and consumers to carry out product-related functions along the demand side of the retail chain in an integrated manner	705/26
87	X		US 20020194081 A1	20021219	302	Internet-based consumer service brand marketing communication system which enables service-providers, retailers, and their respective agents and consumers to carry out service-related functions along the demand side of the retail chain in an integrated manner	705/26
88	X		US 20020194039 A1	20021219	18	Method and framework for model specification, consistency checking and coordination of business processes	705/7
89	X		US 20020188666 A1	20021212	13	Lightweight dynamic service conversation controller	709/203
90	X		US 20020188513 A1	20021212	41	Reporting in a supply chain	705/22
91	X		US 20020188486 A1	20021212	41	Supply chain management	705/7

	Current XRef	Retrieval Classification	Inventor	S	C	P	2	3	4	5
86			Perkowski, Thomas J.							
87			Perkowski, Thomas J.							
88	705/1		Bhaskaran, Kumar et al.							
89			Lemon, Michael J. et al.							
90	705/28		Gil, Reynaldo et al.							
91			Gil, Reynaldo et al.							

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86	US 20020198791	
87	US 20020194081	
88	US 20020194039	
89	US 20020188666	
90	US 20020188513	
91	US 20020188486	

	U	1	Document ID	Issue Date	Pages	Title	Current OR
92	X		US 20020184070 A1	20021205	19	Inter-enterprise collaborative process management method and system	705/9
93	X		US 20020174340 A1	20021121	20	System, method and computer program product for auditing XML messages in a network-based message stream	713/178
94	X		US 20020174218 A1	20021121	18	System, method and computer program product for analyzing data from network-based structured message stream	709/224
95	X		US 20020174039 A1	20021121	14	Virtual hub	705/28
96	X		US 20020173867 A1	20021121	8	Multi-discipline universal CAD library	700/97
97	X		US 20020169842 A1	20021114	83	Method and system for facilitating the integration of a plurality of dissimilar systems	709/206
98	X		US 20020161688 A1	20021031	43	Open market collaboration system for enterprise wide electronic commerce	705/37
99	X		US 20020161674 A1	20021031	43	Method for fulfilling an order in an integrated supply chain management system	705/28
100	X		US 20020156693 A1	20021024	44	Method for providing real-time conversations among business partners	705/26
101	X		US 20020147622 A1	20021010	43	System and method for enabling a configurable electronic business exchange platform	705/7